

Title (en)

Method and apparatus for noise burst detection in a signal processor

Title (de)

Verfahren und Vorrichtung zum Erfassen von Rauschbursts in einem Signalprozessor

Title (fr)

Méthode et dispositif pour la détection des gerbes de bruit dans un processeur de signaux

Publication

**EP 0552005 B1 19971119 (EN)**

Application

**EP 93300144 A 19930111**

Priority

US 82111192 A 19920115

Abstract (en)

[origin: EP0552005A1] A signal processor such as an ADPCM decoder (28b) receives an input signal. As part of the CCITT Recommendation G.726 algorithm, ADPCM decoder (28b) processes the input signal to provide a linear reconstructed signal sr(k). When enabled, a noise detector (50) samples the reconstructed signal sr(k) once for each of a predetermined number of received samples. The noise detector (50) adds the absolute value of the reconstructed signal sr(k) to a total energy estimate. At the end of the predetermined number of samples, the noise detector (50) compares the total energy estimate to a product of a noise threshold and the predetermined number. If the total energy estimate exceeds this product, then a noise indication is provided. This calculation prevents the need for time-consuming division operation which is difficult for high-performance digital signal processors (70). <IMAGE>

IPC 1-7

**H04B 14/06**; **H04B 1/10**

IPC 8 full level

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CPC (source: EP US)

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